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Spring 2-1-2018

M 522.01: Topics in Graduate Algebra - Advanced Algebra II

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Instructor:	Kelly McKinnie	Time:	MWF 10:10-11:00
Office:	111 Math Bldg.	Classroom:	306 Math Bldg.
Email:	kelly.mckinnie@umontana.edu	Office Hours:	11-12 MWF and by appt.
Phone:	x5694		

Course Overview: The main goal of this course is to introduce the basic theory of rings and modules. We will start with understanding the different classes of rings (PIDs, UFDs, etc) and move into the theory of modules.

Textbook: We will follow John Beachy's book *Introductory Lectures on Rings and Modules*, London Mathematical Society Student Texts **47**, Cambridge University Press. Can be found online (price varies, I found \$10 - \$200).

Prerequisites: M 521 or consent of instructor. Please see me if you have questions.

Student Responsibilities:

1. **Attendance.**

2. **Homework.** Homework will be assigned and collected weekly. Not all problems will be graded. A subset of the assigned problems will be designated "required" problems. I expect you to do those on your own. These will be denoted with a star. Please work on these problems without consulting your classmates or sources other than your book. You may also ask me for help on these problems. For the rest of the homework, the problems are optional and you are encouraged to work together. However, please do not use the web on your homework. If you need help with one of these problems, ask me or a fellow classmate for a hint. As always, the words you submit should be your own.

Grades: Grades will be based on homework.

Important dates:

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| February 9 | Last day to add via CyberBear. This is also the last day for students to select the audit grade option. |
| April 2 | Deadline for students to drop/add a course, change sections, change grading option or change credit in a variable credit course. After this date, changes can be made only by petition. |
| May 4 | Last day to petition to drop/add, etc. |

Academic Honesty: All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

Student Conduct Code: All students need to be familiar with the Student Conduct Code. You can find it in the “A to Z Index” on the UM home page.

Disability Support: The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). If you think you may have a disability adversely affecting your academic performance, and you have not already registered with DSS, please contact DSS in Lommasson 154. I will work with you and DSS to provide an appropriate accommodation.